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			ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/640,230 08/1	16/2000	Peter V. Boesen	P03999US2	3395	
22885 7590	12/09/2004		EXAM	EXAMINER	
MCKEE, VOORHEES	& SEASE, P.L.C	YUN, EU	YUN, EUGENE		
801 GRAND AVENUE SUITE 3200			ART UNIT	PAPER NUMBER	
DES MOINES, IA 5030	09-2721		2682		

DATE MAILED: 12/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	7)
	09/640,230	BOESEN, PETER V.	
Office Action Summary	Examiner	Art Unit	
	Eugene Yun	2682	
The MAILING DATE of this communication appeared for Reply	pears on the cover shee	et with the correspondence addres	is
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, m ly within the statutory minimum of will apply and will expire SIX (6) e, cause the application to becore	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this commu ne ABANDONED (35 U.S.C. § 133).	nication.
Status			
Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☒ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under the practice of the practice.	s action is non-final. ince except for formal r	• •	rits is
Disposition of Claims			
4) ☐ Claim(s) 17-30 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 17-30 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 16 August 2000 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11.	a)⊠ accepted or b)☐ drawing(s) be held in aboution is required if the draw	eyance. See 37 CFR 1.85(a). ving(s) is objected to. See 37 CFR 1.	, ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received rity documents have b u (PCT Rule 17.2(a)).	in Application No een received in this National Stag	je
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper 5) D Notice	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-152)

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/18/2004 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 17, 18, 20-24 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Ono et al. (US 4,334,315).

Referring to Claim 17, Ono teaches a method of transmitting voice sound information comprising:

Sensing the voice sound vibrations of a user through an earpiece (fig. 8) having a bone conduction sensor adapted to convert voice sound vibrations to electrical signals (see col. 3, lines 18-22), and a processor operatively connected to the bone conduction sensor, a first transmitter, and a first receiver (see col. 3, lines 18-24);

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Transmitting the voice sound information from the first transmitter to a second receiver 14 (fig. 11) connected to an external connector of a host device 4 (fig. 11);

Receiving the voice sound information at the second receiver (see col. 3, lines 15-17); and

Communicating the voice sound information from the second receiver to the host device (see col. 3, lines 15-17).

Referring to Claim 18, Ono also teaches the earpiece not occluding the external auditory canal of the user (fig. 7).

Referring to Claim 20, Ono also teaches a speech processor (see 'V' in figs. 1, 2, and 4)

Referring to Claim 21, Ono teaches a voice sound transmitting system, comprising:

An earpiece (fig. 8) comprising a bone conduction sensor adapted to convert vibrations of voice sound information to electrical signals (see col. 3, lines 18-22), a processor operatively connected to the bone conduction sensor, a first transmitter operatively connected to the processor and a first receiver operatively connected to the processor (see col. 3, lines 18-24);

A connector for connecting a second receiver and a second transmitter to a host device (see col. 3, lines 15-17);

The second transmitter and the second receiver adapted for communication with the first receiver and the first transmitter of the earpiece (see col. 3, lines 15-17).

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Referring to Claim 22, Ono also teaches the host device as a cellular phone (see col. 2, lines 18-20).

Referring to Claim 23, Ono also teaches the host device as a computer (see col. 2, lines 18-20).

Referring to Claim 24, Ono also teaches the host device as a personal digital assistant (see col. 2, lines 18-20).

Referring to Claim 27, Ono also teaches the connector housed within a cradle (see fig. 11).

Claim Rejections - 35 USC § 103

4. Claims 19, 25, 26, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ono in view of Puthuff et al. (US 6,181,801).

Referring to Claim 25, Ono does not teach a headphone-jack type connector.

Puthuff teaches a headphone-jack type connector (see col. 6, lines 19-21). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Puthuff to said apparatus of Ono in order to expand the different methods a communication earpiece can be used.

Referring to Claims 19 and 28, Ono does not teach an air conduction sensor electrically connected to the processor. Puthuff teaches an air conduction sensor electrically connected to the processor (see ABSTRACT and fig. 1). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made

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to provide the teachings of Puthuff to said apparatus of Ono in order to expand the different methods a communication earpiece can be used.

Referring to Claim 26, Puthuff also teaches the connector as a serial connector (see fig. 1 where most computers are equipped with serial connectors).

5. Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ono in view of Viallet (5,917,698) and Chen (US 5,664,012).

Referring to Claim 29, Ono teaches a voice sound system, comprising:

An earpiece (fig. 8) having a bone conduction sensor, a speech processor operatively connected to the sensor (see col. 3, lines 18-22), a first transmitter operatively connected to the speech processor and a first receiver operatively connected to the speech processor (see col. 3, lines 18-24);

One does not teach a cradle comprising a second transmitter and second receiver for communicating with the first transceiver and first receiver. Chen teaches a cradle for supporting a host device comprising a second transmitter and second receiver for communicating with the first transceiver and first receiver (see fig. 2 noting that the earpiece and microphone send and receive signals with the cradle) and an air conduction sensor 62 (fig. 3). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Chen to said apparatus of One in order to increase the convenience of hands-free communication.

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The combination of Ono and Chen does not teach the cradle providing for electromagnetic shielding. Viallet teaches the cradle providing for electromagnetic shielding (see col. 1, lines 56-67 and col. 2, lines 1-2). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Viallet to said apparatus of Ono in order to better increase the safety of smaller, high-powered communication devices.

6. Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson (US 5,721,783) in view of Viallet.

Referring to Claim 30, Anderson teaches a device for interfacing a phone to a wireless earpiece, comprising:

A housing 23 (fig. 2);

A transmitter 27 (fig. 2) and a receiver 24 (fig. 2) disposed within the housing for wirelessly communicating with the wireless earpiece; and

A connector providing connections between the transmitter and receiver within the housing and the phone (see 25 in fig. 2).

The combination of Ono and Chen does not teach the housing providing electromagnetic shielding. Viallet teaches the housing providing electromagnetic shielding (see col. 1, lines 56-67 and col. 2, lines 1-2). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Viallet to said apparatus of Anderson in order to better increase the safety of smaller, high-powered communication devices.

Response to Arguments

7. Applicant's arguments with respect to claims 17-30 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Yun whose telephone number is (703) 305-2689. The examiner can normally be reached on 8:30am-5:30pm Alt. Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (703) 308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eugene Yun
Examiner
Art Unit 2682

ΕY

LEE NGUYEN) PRIMARY EXAMINER